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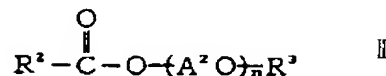
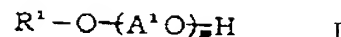
APPLICATION DATE : 22-02-90
APPLICATION NUMBER : 02042274

APPLICANT : KURITA WATER IND LTD;

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INT.CL. : D21C 5/02 C12S 3/08

TITLE : METHOD FOR DEINKING WASTE PAPER



ABSTRACT : PURPOSE: To deink waste paper for heightening the whiteness thereof while preventing a foaming trouble during the process by simultaneously employing a deinking agent hydrolyzable with esterase, a deinking agent not hydrolyzable with the esterase and the esterase as deinking agents.

CONSTITUTION: When a deinking agent is added to a treating solution for waste paper and inks are peeled from the waste paper, (A) a deinking agent hydrolyzable with esterase, (B) a deinking agent not hydrolyzable with the esterase and (C) are esterase are simultaneously employed and the deinking agent hydrolyzable with the esterase is hydrolyzed to deink the waste paper. An ether type alkylene oxide adduct of formula I [R^1 is 8-24C alkyl, etc.; (A^1O) is 2-4C oxyalkylene; $m>1$], etc., and a surfactant of formula II [R^2 is 11-23C alkyl, etc.; R^3 is H, 1-22C alkyl, etc.; (A^2O) is 2-4C oxyalkylene, etc.; $n>1$], etc., may be employed as the components A and B, respectively.

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